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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/887,593

DATE: 11/27/2001

TIME: 12:40:52

Input Set : N:\Crif3\RULE60\09887593.txt

Output Set: N:\CRF3\11272001\I887593.raw

3 <110> APPLICANT: Afar, Daniel E.
 4 Hubert, Rene S.
 5 Leong, Kahan
 6 Raitano, Arthur B.
 7 Saffran, Douglas C.
 8 Jakobovits, Aya
 10 <120> TITLE OF INVENTION: BPC-1: A SECRETED BRAIN-SPECIFIC PROTEIN EXPRESSED AND
 11 SECRETED BY PROSTATE AND BLADDER CANCER CELLS
 13 <130> FILE REFERENCE: 1703-017.US1
 15 <140> CURRENT APPLICATION NUMBER: 09/887,593
 16 <141> CURRENT FILING DATE: 2001-06-21
 18 <150> PRIOR APPLICATION NUMBER: 09/374,135
 19 <151> PRIOR FILING DATE: 1999-08-10
 21 <150> PRIOR APPLICATION NUMBER: 60/095,982
 22 <151> PRIOR FILING DATE: 1998-08-10
 24 <160> NUMBER OF SEQ ID NOS: 20
 26 <170> SOFTWARE: PatentIn Ver. 2.1
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 2639
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Homo sapiens
 33 <400> SEQUENCE: 1
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 37 ccaagggctg gagcgaggag cgctgccgct ggacatcctc ccggggaggc tgctccgacc 240
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 41 gcgcccgcgtc ctcccgaacc cgcggcgggc acgatgcccg ggaggagggt cctgacggcg 480
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61 atatccacca aaatgatctt tggggaaactt gaatcaaaaag tttatttggt ctgaaaatta 1680
62 ccgtgtttca atcaaataga tcctacttta ggaagtagtc tgctctcttt tcaggaaaagc 1740
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65 ttttaactcg tagaattaaa aagatcctgt gttgttgctt ggcccacttg attaagagtt 1920
66 accattcatt acaataaaaa taggttatca ctttttttca ctgcaagaac actacatgca 1980
67 ttaattttaa tggaaaaatg attcaaatta cataaagccc attttttata tagtttgttt 2040
68 tcagtttgta tgtattgttt tatttaagtt aggcaatagc ataatttcaa atatatgtaa 2100
69 agttgggtga agtttgatt ccatgttaaa gaagtaacat ctaaatacag ctttgatact 2160
70 cagttaaaaa actaaaattt taaaaattat taatataagt ttaatgatga ctttcattat 2220
71 gacatcatgg ggtatgttaa atcaagtatt tactgtagca tataatattag ctttaagcat 2280
72 taggaatggt ttaataata tcaactaaagg attgtggttt taattatgct ttgctgataa 2340
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74 tcccaaaagg tacaaatggt agcttaattt gtttggtcag attattagtg ctagagttgt 2460
75 aaatggaaag gtaggtattt ttttcttaac tgataattt gaatataacc tgtacctaga 2520
76 gacagtgaca tacggcatgt tctaggtttc ataagttata ttttcattct gggtttggtg 2580
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80 <210> SEQ ID NO: 2

81 <211> LENGTH: 158

82 <212> TYPE: PRT

83 <213> ORGANISM: Homo sapiens

85 <400> SEQUENCE: 2

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86 Met Ile His Gly Arg Ser Val Leu His Ile Val Ala Ser Leu Ile Ile
87   1             5             10             15
89 Leu His Leu Ser Gly Ala Thr Lys Lys Gly Thr Glu Lys Gln Thr Thr
90             20             25             30
92 Ser Glu Thr Gln Lys Ser Val Gln Cys Gly Thr Trp Thr Lys His Ala
93   35             40             45
95 Glu Gly Gly Ile Phe Thr Ser Pro Asn Tyr Pro Ser Lys Tyr Pro Pro
96   50             55             60
98 Asp Arg Glu Cys Ile Tyr Ile Ile Glu Ala Ala Pro Arg Gln Cys Ile
99   65             70             75             80
101 Glu Leu Tyr Phe Asp Glu Lys Tyr Ser Ile Glu Pro Ser Trp Glu Cys
102             85             90             95
104 Lys Phe Asp His Ile Glu Val Arg Asp Gly Pro Phe Gly Phe Ser Pro
105             100             105             110
107 Ile Ile Gly Arg Phe Cys Gly Gln Gln Asn Pro Pro Val Ile Lys Ser
108             115             120             125
110 Ser Gly Arg Phe Leu Trp Ile Lys Phe Phe Ala Asp Gly Glu Leu Glu
111             130             135             140
113 Ser Met Gly Phe Ser Ala Arg Tyr Asn Phe Thr Pro Gly Lys
114 145             150             155

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117 <210> SEQ ID NO: 3

118 <211> LENGTH: 115

119 <212> TYPE: PRT

120 <213> ORGANISM: Caenorhabditis elegans

122 <400> SEQUENCE: 3

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123 Ile Phe Thr Ser Pro Asn Phe Pro Asp Arg Tyr Pro Pro Asn Ile Asp
124   1           5           10           15
126 Cys Val Arg Val Ile His Ser Arg Pro Gln His Asp Val Val Val Lys
127           20           25           30
129 Phe His His Val Phe His Ile Glu Ser Thr Tyr Asp Lys Ile Asp Ala
130           35           40           45
132 Gly Glu Glu Cys Pro Asn Asp Phe Ile Glu Phe Arg Asp Gly Arg Tyr
133           50           55           60
135 Gly Phe Ser Pro Leu Ile Ala Arg Phe Cys Gly Asp Arg Met Pro Lys
136   65           70           75           80
138 Arg Glu Ile Arg Ala Val Ser Gly Phe Leu Trp Ile Arg Phe Arg Ser
139           85           90           95
141 Asp Ser Met Leu Glu Tyr Gln Gly Phe Ser Ala Glu Tyr Ala Ile Val
142           100           105           110
144 Pro Ser Lys
145           115
148 <210> SEQ ID NO: 4
149 <211> LENGTH: 101
150 <212> TYPE: PRT
151 <213> ORGANISM: Mouse
153 <400> SEQUENCE: 4
154 Gly Asn Phe Ser Ser Pro Glu Tyr Pro Asn Gly Tyr Ser Ala His Met
155   1           5           10           15
157 His Cys Val Trp Arg Ile Ser Val Thr Pro Gly Glu Lys Ile Ile Leu
158           20           25           30
160 Asn Phe Thr Ser Met Asp Leu Tyr Arg Ser Arg Leu Cys Trp Tyr Asp
161           35           40           45
163 Tyr Val Glu Val Arg Asp Gly Phe Trp Arg Lys Val Trp Val Arg Gly
164           50           55           60
166 Arg Phe Cys Gly Gly Lys Leu Pro Glu Pro Ile Val Ser Thr Asp Ser
167   65           70           75           80
169 Arg Leu Trp Val Glu Phe Arg Ser Ser Ser Asn Trp Val Gly Lys Gly
170           85           90           95
172 Phe Phe Ala Val Tyr
173           100
176 <210> SEQ ID NO: 5
177 <211> LENGTH: 103
178 <212> TYPE: PRT
179 <213> ORGANISM: Mouse
181 <400> SEQUENCE: 5
182 Asp Asn Gly His Ile Gln Ser Pro Asn Tyr Pro Asp Asp Tyr Arg Pro
183   1           5           10           15
185 Ser Lys Val Cys Ile Trp Arg Ile Gln Val Ser Glu Gly Phe His Val
186           20           25           30
188 Gly Leu Thr Phe Gln Ser Phe Glu Ile Glu Arg His Asp Ser Cys Ala
189           35           40           45
191 Tyr Asp Tyr Leu Glu Val Arg Asp Gly His Ser Glu Ser Ser Asn Leu
192           50           55           60
194 Ile Gly Arg Tyr Cys Gly Tyr Glu Asn Pro Asp Asp Ile Lys Ser Thr

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195 65          70          75          80
197 Ser Ser Arg Leu Trp Leu Lys Phe Val Ser Asp Gly Ser Ile Asn Lys
198          85          90          95
200 Ala Gly Phe Ala Val Asn Phe
201          100
204 <210> SEQ ID NO: 6
205 <211> LENGTH: 101
206 <212> TYPE: PRT
207 <213> ORGANISM: Mouse
209 <400> SEQUENCE: 6
210 Gly Ser Ile Thr Ser Pro Gly Trp Pro Lys Glu Tyr Pro Pro Asn Lys
211 1          5          10          15
213 Asn Cys Ile Trp Gln Leu Val Ala Pro Thr Gln Tyr Arg Ile Ser Leu
214          20          25          30
216 Gln Phe Asp Phe Phe Glu Thr Glu Gly Asn Asp Val Cys Lys Tyr Asp
217          35          40          45
219 Phe Val Glu Val Arg Ser Gly Leu Thr Ala Asp Ser Lys Leu His Gly
220          50          55          60
222 Lys Phe Cys Gly Ser Glu Lys Pro Glu Val Ile Thr Ser Gln Tyr Asn
223 65          70          75          80
225 Asn Met Arg Val Glu Phe Lys Ser Asp Asn Thr Val Ser Lys Lys Gly
226          85          90          95
228 Phe Lys Ala His Phe
229          100
232 <210> SEQ ID NO: 7
233 <211> LENGTH: 102
234 <212> TYPE: PRT
235 <213> ORGANISM: Mouse
237 <400> SEQUENCE: 7
238 Gly Thr Ile Thr Ser Pro Asn Trp Pro Asp Lys Tyr Pro Ser Lys Lys
239 1          5          10          15
241 Glu Cys Thr Trp Ala Ile Ser Ser Thr Pro Gly His Arg Val Lys Leu
242          20          25          30
244 Thr Phe Val Glu Met Asp Ile Glu Ser Gln Pro Glu Cys Ala Tyr Asp
245          35          40          45
247 His Leu Glu Val Phe Asp Gly Arg Asp Ala Lys Ala Pro Val Leu Gly
248          50          55          60
250 Arg Phe Cys Gly Ser Lys Lys Pro Glu Pro Val Leu Ala Thr Gly Asn
251 65          70          75          80
253 Arg Met Phe Leu Arg Phe Tyr Ser Asp Asn Ser Val Gln Arg Lys Gly
254          85          90          95
256 Phe Gln Ala Ser His Ser
257          100
260 <210> SEQ ID NO: 8
261 <211> LENGTH: 95
262 <212> TYPE: PRT
263 <213> ORGANISM: Mouse
265 <400> SEQUENCE: 8
266 Asn Asn Tyr Pro Gly Gly Val Asp Cys Glu Trp Val Ile Val Ala Glu

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267      1              5              10              15
269 Glu Gly Tyr Gly Val Glu Leu Val Phe Gln Thr Phe Glu Val Glu Glu
270              20              25              30
272 Glu Thr Asp Cys Gly Tyr Asp Tyr Ile Glu Leu Phe Asp Gly Tyr Asp
273              35              40              45
275 Ser Thr Ala Pro Arg Leu Gly Arg Tyr Cys Gly Ser Gly Pro Pro Glu
276              50              55              60
278 Glu Val Tyr Ser Ala Gly Asp Ser Val Leu Val Lys Phe His Ser Asp
279      65              70              75              80
281 Asp Thr Ile Ser Lys Lys Gly Phe His Leu Arg Tyr Thr Ser Thr
282              85              90              95
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286 <211> LENGTH: 14
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Description of Artificial Sequence: cDNA synthesis
292     primer
294 <400> SEQUENCE: 9
295 ttttgatcaa gctt                                     14
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300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA Adaptor 1
306 <400> SEQUENCE: 10
307 ctaatacgac tcactatagg gctcgagcgg ccgcccgggc ag      42
310 <210> SEQ ID NO: 11
311 <211> LENGTH: 40
312 <212> TYPE: DNA
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA Adaptor 2
318 <400> SEQUENCE: 11
319 gtaatacgac tcactatagg gcagcgtggt cgcggccgag      40
322 <210> SEQ ID NO: 12
323 <211> LENGTH: 22
324 <212> TYPE: DNA
325 <213> ORGANISM: Artificial Sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR primer 1
330 <400> SEQUENCE: 12
331 ctaatacgac tcactatagg gc                                     22
334 <210> SEQ ID NO: 13
335 <211> LENGTH: 22
336 <212> TYPE: DNA
337 <213> ORGANISM: Artificial Sequence
339 <220> FEATURE:

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/887,593

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